M A A Q N G N T A Q D H A S S L S F N F SFTPNFNPP AGT TTC ACA CCC AAC TIT AAT CCA CCC CAA GAC CAT GCC TCC, TCC CTC TCC TIT AAC TTC 128 MDEDEDMTKT 48 GDYDL P AGT TAT GOT GAT TAT GAC CTC CCT ATG GAT GAG GAT GAG GAC ATG ACC AAG ACC CGG ACC 188 A A K I V I G I A L A G I M L V C G 68 TTC TTC GCA GCC AAG ATC GTC ATT GGC ATT GCA CTG GCA GGC ATC ATG CTG GTC TGC GGC 248 IAALTRYKKLRNLT 88 G N F V F ATC GOT AAC TIT GIC TIT ATC GCT GCC CTC ACC CGC TAT AAG AAG TIG CGC AAC CTC ACC 30B SDFLVAI 108 NLLIANL A I AAT CTG CTC ATT GCC AAC CTG GCC ATC TCC GAC TTC CTG GTG GCC ATC ATC TGC TGC CCC 368 FEMDYYVVRQLSWEHGHVLC 128 TTC CAG ATG CAC TAC TAC CTG CTA COG CAG CTC TCC TGG GAG CAT GGC CAC GTG CTC TGT 428 A S V N Y L R T V S L Y V S T N A L 148 GCC TCC GTC AAC TAC CTG CGC ACC GTC TCC CTC TAC GTC TCC ACC AAT GCC TTG CTG GCC 488 AIDRYLAIVHPLKPRMNYQ 168 ATT GCC ATT GAC AGA TAT CTC GCC ATC GTT CAC CCC TTG AAA CCA CGG ATG AAT TAT CAA 548 TASFLIALVWMVSILIAI 188 ACG GCC TCC TTC CTG ATC GCC TTG GTC TGG ATG GTG TCC ATT CTC ATT GCC ATC CCA TCG 608 A.Y FATETVLFIVKSQEKIFC 208 GCT TAC TIT GCA ACA GAA ACC GTC CTC TIT ATT GTC AAG AGC CAG GAG AAG ATC TIC TGT 668 I W P V D Q Q L Y Y K S Y F. 228 GGC CAG ATC TGG CCT GTG GAT CAG CAG CTC TAC TAC AAG TCC TAC TTC CTC TTC ATC TTT 72B VTMTLCYARI 248 GVEFVG GOT GTC GAG TTC GTG GGC CCT GTG GTC ACC ATG ACC CTG TGC TAT GCC AGG ATC TCC CGG 788 PGFQTEQIRKRLR 268 K A V GAG CTC TGG TTC AAG GCA GTC CCT GGG TTC CAG ACG GAG CAG ATT CGC AAG CGG CTG CGC 848 C R R K T V L V L M C I L T A Y V L C W 288 TOC COC AGG AAG ACG GTC CTG GTG CTC ATG TGC ATT CTC ACG GCC TAT GTG CTG TGC TGG 908 APFYGFTIVRDFFPTVFVKE 308 SCA CCC TTC TAC GOT TTC ACC ATC GTT CGT GAC TTC TTC CCC ACT GTG TTC GTG AAG GAA 968 328 YVVECIAMSNSMI K H Y L T A F ANG CAC TAC CTC ACT GCC TTC TAC GTG GTC GAG TGC ATC GCC ATG AGC AAC AGC ATG ATC 1028 N T V C F V T V K N N T M K Y F K K M M AAC ACC GTG TGC TTC GTG ACG GTC AAG AAC AAC ACC ATG AAG TAC TTC AAG AAG ATG ATG 368 LLHWRPSQRGSKS SADLDLR CTG CTG CAC TGG CGT CCC TCC CAG CGG GGG AGC AAG TCC AGT GCT GAC CTT GAC CTC AGA 1148 385 E E V D C T

ACC AAC GGG GTG CCC ACC ACA GAA GAA GTG CAC TGT ATC AGG CTG AAG TGA 1199 TOGGAAATGACATCTOTOTTCATGCCTCCCCCGTGCCCTCAAGAAGCCGAATGCTGCAAAGTCGTAACATACAATGAGA 1357 CTAGACATGAACCAAATCAGCTGACATTTACTGATATCCGCTCGACACCTACTGTGTGCCACAATCCCCACAAGGAGATT 1436 AGACACAAGGAGCAGCAACTGACATGGACTGAACATGTACTGTGCAAACCACACCAATGAGATTAGACGGGGACAGC 1515 AGGAGCTGACATTTACTCTTCACCTACTGTAATCAAAAACACTTGATTTGATTACAATCAAAAACATATAAAAAAACATA 1594 GTATCTTACCAGTGCAGGAATATCAAAAGGCTATAGGCCAGGCATGATGGCTCATGCCTGTAATCCCAGCACTTGGGGA 1752 GGCTGAGGCACGTGGATCACTTGAGGTCAGGAGTTCAACCCCAGGCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAA 1831 ATACAAAATTAGCTAGGCGTGGTGGGGGGGGGGGTAATCCCAGTTACTCAGGAGGCTGAAGCAGCAGAATAGCTTGAA 1910 CCTGGGAGTTGGAGTTTGCAGCTGAGATTGCTCCACTGCACTCCAGCTGAGTGACAGAGTGAGACTCTGTCTCA 1989 ACAATGGAAATGTAACGATAAGTTTGTCAGTGCGTGGTTACAGCATCATGGGAGGTGCGTTACAGCCATCATACTGAA 2147 GCCCAGCCTTATGTGGTTATCCACAATGGTGTAATTTCAAAGGAAAGAACCTAAAAATCACTTTCCCACTGATGCTTGA 2305 AAGCTTATCATTTTATTTGGGTGGAGATGGGTAATCCTGAGGTGTCAATTTTTTGCCTCCTCAGTGCAAAGGATTTCAGT 2384 GGCTCTGGGGTCAGGGGGAAAGAGGACAGAGAAAAAGTGGAGGTTGCCACTGGCAATGAACATAATCTCTGTGGGCAT 2463 TTTGCTAAGGACTGGACCACTTTCTAGAACACTCCCTCTTTTACAAAAGGAACTCTACCTAGAATCCAAAGACCTGGGT 2542 TCAGGICCIAACTCIAAGACTCAAGICCTAAATTCATGATGTTTTCTCTCTGTGTGTCTCAGTTTTGCTTTAATGAAATGG CGATGATGAAAATATCTGCTCTTCATACCTTGCAAGACTOTTGGGAGAGCCCATTGAGGCCATGGTTTGTGAATGTGCT 2700 CACTOTGATTTATTAGAGAAATACCCACACTTTTTCATCCCTGTTCTTTGGATGAAAGACTCCTGAAGACTTCACAGTG 2858 TACCTTOTCTACAGTGGGCCAAAAAGGGATCCCTGTTCTTGGTTATAATCTGGGAAATTTAACCTCAGATTCTCAGTGA 2937 CCCCAAGACTCTCAGCATCCCTGCGGTCTTAGAAGTGTTGACAGTCTTCCCTGCATGTTGCCAAAATAGCACCCTAGTGC 3016 TGCATAAATATCACTTCTGAATCTGTTTGTATTATTATACATTTGTGGTAACTGTAGGTACACGTCTTCATTTCTTCTT 3095 ACCAATGTTTCTTTCTATCACCACCCAGCAGACTCACCTTCAGCCCAATCATTGTACTCTCAGAAAATGCAGGCCGGCA 3332 TGGTGGCTCACATCTGTAATCCCAGCACTTCGGGAGGCCAAGATGGGCAGATCACCTGAGGTCAGGAGTTCAAGACCAG 3411

| TGGCCAACATGGCAAAACOCCATCTCTAGAAAAATACAGAAATTAGCTGGCGTGGTGGCACATGCCTGTGGTCCCAG | 3490 |
|--|------|
| CCTCAGGAGGCTGAGGCATGAGAATTGCTTGAACCCCAGAGGCAGAGGTTGCAGTGAATTGAGATGGCACCACTGCA | 3569 |
| CCAGOCTGGGTGATAGAGCAAGATTCCATCTCAAAAGGAAAATAAAAGGAAAATGCAAACACACTATAATATTAGCCT | 3648 |
| GCARARCTOTTARTTCTCATTTACARARATTCTTACTTGCTTGGCTTTGARATGCATTGTGARATARTGCATTCAR | 3727 |
| ocaagcaagtaacaattttaggitaigtacattictataaatataataattgiattitattattattattctg | 3806 |
| TCTTAGCOGAATCAGGAGATTCTTTAGGAATGGACCATGTACCAGTCAAGTCTGTCAGCAGGATTCATCACCCTGTT | 3885 |
| TTTTTGTCCTAGAATATACCAACTTCCTTTCATTGAAATTTAACTGAAAAAACTTTTGTAAATATCAGTGTGTATTT | 3964 |
| GATTITOCAGICATTAÀAGIGIGATGITGITATCCAATTAAATAATTAACATGIGGAATTIAAAAAAAAAA | 4043 |
| ossecoc . | 4052 |

| GAA | GAATTCCCGGGTCGACCCACGCGTCCGGGCGGCTGGAACTCCCGCTTATTGGTCCCCGGTGGCGATCTTTGGGAGACCA | | | | | | | | | | | | | | 79 | | | | | |
|---|---|-----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|-------------|----------|----------|----------------|----------|----------|--------------------|
| ATAGACGCCCCAGAGGGAGGACACTGGGATCCAGACTCCACTGGAACCCCGCTTTTCAGATCCTGGATGGTATCTGTTC | | | | | | | | | | | | | | 15 % | | | | | | |
| TCC | TCCCTAAGGATTCTAACAGGGACCTGCACTCACTGACCCCAGCAGAAGTGCTGAACTCCACGTGAGCGCATCTCCCTGA | | | | | | | | | | | | | | | CTGA | 237 | | | |
| TAC | ACAC | CAGC | CCAC | CTGT. | AGCA' | TCAT | CAAC | M ATG | G GGA | | Q CAG | n aac | R AGA | n Aac | T ACT | S AGC | F TTT | A GCA | P CCA | 12 304 |
| D | L | N· | P | P | Q | D | н | v | s | L | N | Y | ş | Y | G | D | Y | D | L | 32 |
| GAC | TTG | AAT | CCA | CCC | CAA | GAC | CAT | GTC | TCC | TTA | AAC | TAC | AGT | TAT | GGT | GAT | TAT | GAC | CTC | 3 64 |
| CCC | L CTG | G GGT | E GAG | D GAT | E GAG | D GAT | V GTG | T ACC | K AAG | T ACA | Q CAG | T ACC | F TTC | F TTT | A GCA | A GCC | K AAA | I ATT | V GTC | 52 42년 |
| I ATT | G GGC | V GTG | A GCA | L CTG | A GCA | G GGC | I ATC | m atg | L CTG | V GTC | C TGC | G GGC | I ATT | G GGC | N AAC | F | V _. | F | I ATT | 72 484 |
| A GCT | A GCC | L CTC | A GCC | | Y TAC | K AAG | K AAG | L CTG | R; CGC | n aac | L CTT | T ACC | | L | L CTC | I ATT | A GCT | _ | L . | 92. 544 |
| A GCC | I ATC | S TCT | D GAC | F TTC | L CTG | V GTG | A GCG | I ATC | V GTC | C TGC | C TGC | P | F TTT | E GAG | M ATG | D GAC | Y ŤAT | Y TAT | V GTA | 112 604 |
| V | R CGG | Q CAG | L CTT | S TCC | W TGG | A GCG | H CAT | G GGT | H CAC | V GTG | L CTT | C TGT | A GCC | s TCC | V GTC | N AAC | Y TAC | L CTT | R CGT | 132 6 4 |
| T ACG | V GTC | ਼s TCC | L CTG | Y TAC | V GTC | S TCC | T ACC | N AAC | A GCT | L CTG | L CTG | A GCC | I ATC | A GCT | I ATT | D GAC | R AGA | Y TAC | L CTC | 152 7 24 |
| A GCT | | | | | | | | | | | | | | | | F TTC | | | | 172 784 |
| | | | | | | | | | | | | | | | | T ACC | | | | 192 844 |
| I | L | v | I | v | ĸ | N | Q | E | ĸ | I | F | С | G | Q | 1 | W | s | v | . D | 212 |

F16.2A

ATC CTC GTT ATC GTC AAG AAT CAA GAA AAA ATC TTC TGT GGT CAG ATC TGG TCG GTG GAC 904 232 CAG CAG CTC TAC TAC AAA TCC TAC TTC CTC TTC GTC TTC GGG CTT GAG TTC GTG GGT CCC 914 252 1034 GTG GTC ACT ATG ACC CTG TGC TAT GCC AGG ATC TCC CAA GAG CTC TGG TTC AAG GCT GTA 272 P R ĸ R CCT GGC TTC CAG ACG GAG CAA ATC CGC AAG CGG CTG CGT TGC CGC CGC AAG ACA GTG CTA 1094 292 L Y С Y CTG CTC ATG GGC ATC CTC ACA GCC TAC GTG CTG TGC TGG GCG CCG TTC TAT GGC TTT ACC 1144 312 ATA GTG CGA GAC TTC TTC CCC ACG GTA GTT GTG AAG GAG AAG CAC TAC CTC ACC GCC TTC 1204 M 332 TAC GTC GTG GAG TGC ATT GCC ATG AGC AAC AGC ATG ATC AAT ACT ATA TGC TTC GTG ACG 1264 R 352 GTC AAG AAC ACC ATG AAA TAC TTC AAG AAG ATG CTG CGG CTC CAC TGG CGG CCC TCT 1324 D L 372 CAC TAC GGG AGT AAG TCC AGC GCT GAC CTC GAC CTC AAA ACC AGC GGG GTG CCT GCC ACT 1384 E 381 GAA GAG GTG GAT TGT ATC AGA CTA AAG TAG 1414 CCTTCAGGTGTTGCCCAAGGAAAAATTTAACATTCGGTACTCAGTAAATCACACACCATCAACCACTCACAAGCTACAT 1493 GGAAAGATACGGCTGTATTCACGTTCTCCTGCTCTAATGTATCAGGACGCTTCTATGTAATAACATACAGCACAACTGA 1572 1651 CAACCAATTATTCAAGGACAAGAGCTGACATGTGAGAATTACCTGCTATGTGCAAAAAACAAGTTACCCCCCAAAAAAT 1730 1809 GAAAGAAGTCACAAATGACTAGCCAGAGTCATGCTACATATTCTTTCATTCTGTATCTTTTCTGCACAGAACTGTCAAA

GGCAATAGAATAAAGCACCTAGACATACTAGAAATGTAAGGATAACTCCATCAATAGGGAGACCAAGGCCTCATAGGAA 1%7 GAGGGTCCATATAGTATACTGACTTTCCCCACTCCACACCAGTTATCTCCTTAGATATTCTGTACTTATCTGCAATGTT 2046 GTAATTTCAAATGAGGAAAAATAAGGGGACAGGCTTTACCACAGATGTATCAAATCTCATCAAGCCCATAGGGCAAAGA 2115 TGGGAGGCTCCTGACACAAGAAATGTATCCAGTTCTGGATAACTTTAATGCCAAGCATTTCAGGGCTCTGGGGTCTTGG 22°4 AGGAAGAGACACAGAAAGAGCCGAGGTTTCCAGTGGCAATGAGTATAATCTGTCCATTTGCTATGATTTGGACAATTT 2283 TCTAGAACATACTCCGACTTACAAAAGGAACTCTACTTGAGATCCAAAGATCCGGGTAAAAGTCCTAACCCCAGGACTC 2342 ATCTCTGTGTGTCTCCACTGTAATGAAATGGAAATAATGAAAACGGATCATTAGGAACATCAGCCCGGCGAAGTCATGG TGTGGATGTGATTTTCACCTCTTCCTTTGTGAAGAATGAGGTCGTGAAAAGCTCATTAGAGGGAGTTTGGAATGGAGAA ACAGCTCCACACTTTCATCCCTCTTCTTGAATCGGAGACCACTAAACGCATCTTTGAAGTAGCGTATCTATAGTGAG 2599 GCATAAAGGTCTCCCTGTCACAGAGTGCAATCAAGAAAATACAGTCAATGCCCATACCCTCAGCATCCCTGTGGTCTTA 2678 GACAGTCTTCCCAACAAAGCACTGGTGGACCCCAGGACTGAATTCACTTGTATTATTATGTCATCTACTGAATACTAGG 2757 AGGAAGACCTTCTTAAACACAGGAGAACCATTATTCTGTCCAGGACACAAATAACCTCTCCAGTAGACACTGTACCCTT 29|5 CACATGTCAACAGAATTTGCCTCCTTCTTGTATTTAAACATATCATCCTCCTTTCATTTAGATTTAACCAGAAACCATT 2994 CCTGTAAATTTCAATGTGTTTGTGATACCGCACTGTAAAAAGCGTATGCTGTTATCATATGGAATAATTAACATACAGA 3073 ATTGTAATCGTAGTTCCCAAAAGGTTCCCTACTCCTGTTGTATCTTATGTTTATATGTTTGATGTAAATGGAGCTGTGT 3152 AGCTGTCTAAGCAGCTCAAGCCTGAAATGAGGGAATGTCCAATGGTGTTCTTAGAGCAGGGCCATCTCAGGCTAGCAGC 3231 3340 CGGCCGC 3347